

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: 218P110

Luminaire Tested: **EP3GX-OU-232-S18MI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 218P110  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: EP3GX-OU-232-S18MI  
Description: 3" 1 X 4 Over and Under Housing with an 8 cell  
specular low iridescent economy parabolic louver.  
Light Source: Two - FO32/735 - 2800 Lumens ea. - 32 Watts ea.  
Ballast/Driver: Magnetek B232I120RH Electronic - L.O.B.F. = 88.22

**Summary**

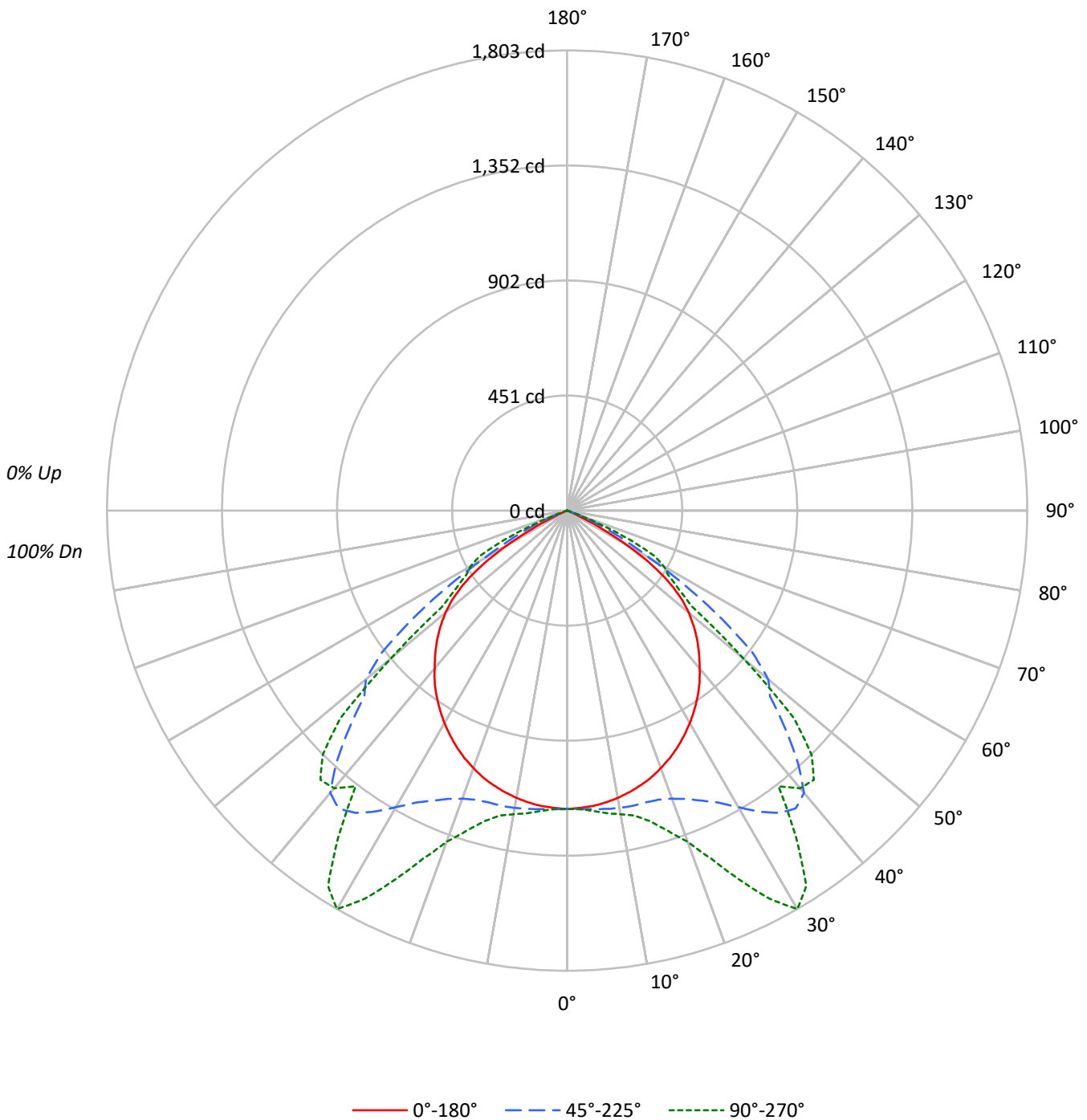
Lumens per Lamp: 2800 (2 lamps)  
Luminaire Lumens: 3489.8 lumens  
Efficiency: 62.3%  
Efficacy: 62.7 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.81 / 1.64  
Luminous Opening: Rectangular (W 0.73' x L: 3.75' x H: 0')  
CIE Type: Direct

Input Watts (W): 55.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	74	74	74	74	72	72	72	72	69	69	69	66	66	66	64	64	64	62					62			
1	69	67	65	63	68	66	64	62	63	61	60	61	59	58	58	57	57	55					55			
2	64	60	56	53	62	59	55	53	56	54	51	55	52	50	53	51	49	48					48			
3	59	53	49	45	57	52	48	45	51	47	44	49	46	43	47	45	43	42					42			
4	54	48	43	39	53	47	42	39	45	41	38	44	41	38	43	40	37	36					36			
5	50	43	38	34	49	42	37	34	41	37	33	40	36	33	38	35	33	31					31			
6	46	38	33	30	45	38	33	29	37	32	29	36	32	29	35	31	29	28					28			
7	43	35	30	26	42	34	29	26	33	29	26	33	29	26	32	28	25	24					24			
8	40	32	27	23	39	31	26	23	30	26	23	30	26	23	29	25	23	22					22			
9	37	29	24	21	36	29	24	21	28	24	21	27	23	21	27	23	20	19					19			
10	35	27	22	19	34	26	22	19	26	22	19	25	21	19	25	21	18	17					17			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4602	4602	4602
5°	4591	4639	4667
10°	4569	4729	4828
15°	4540	4825	5135
20°	4499	5031	5785
25°	4443	5446	6928
30°	4368	6100	8195
35°	4282	6949	7516
40°	4152	7420	7297
45°	4014	6725	7537
50°	3809	6301	5524
55°	3322	5078	3637
60°	2149	2976	3448
65°	503	1583	2515
70°	104	276	357
75°	61	61	61
80°	45	45	45
85°	45	45	45



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	112.2	3.2	2.0	0°	1169	1169	1169	1169	1169	
10°-20°	338.3	9.7	6.0	5°	1162	1165	1174	1182	1181	110
20°-30°	596.9	17.1	10.7	15°	1114	1138	1184	1238	1260	314
30°-40°	823.0	23.6	14.7	25°	1023	1079	1254	1487	1595	471
40°-50°	857.8	24.6	15.3	35°	891	1022	1446	1630	1564	556
50°-60°	577.3	16.5	10.3	45°	721	988	1208	1307	1354	555
60°-70°	176.7	5.1	3.2	55°	484	779	740	530	530	419
70°-80°	6.7	0.2	0.1	65°	54	91	170	234	270	88
80°-90°	0.9	0.0	0.0	75°	4	4	4	4	4	5
90°-100°	0.0	0.0	0.0	85°	1	1	1	1	1	1
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	0
110°-120°	0.0	0.0	0.0	95°	0	0	0	0	0	0
120°-130°	0.0	0.0	0.0	105°	0	0	0	0	0	0
130°-140°	0.0	0.0	0.0	115°	0	0	0	0	0	0
140°-150°	0.0	0.0	0.0	125°	0	0	0	0	0	0
150°-160°	0.0	0.0	0.0	135°	0	0	0	0	0	0
160°-170°	0.0	0.0	0.0	145°	0	0	0	0	0	0
170°-180°	0.0	0.0	0.0	155°	0	0	0	0	0	0
0°-30°	1047.3	30.0	18.7	165°	0	0	0	0	0	0
0°-40°	1870.3	53.6	33.4	175°	0	0	0	0	0	0
0°-60°	3305.4	94.7	59.0	180°	0	0	0	0	0	0
0°-90°	3489.8	100.0	62.3							
90°-120°	0.0	0.0	0.0							
90°-150°	0.0	0.0	0.0							
90°-180°	0.0	0.0	0.0							
0°-180°	3489.8	100.0	62.3							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1169	1169	1169	1169	1169
2.5°	1166	1167	1171	1174	1171
5°	1162	1165	1174	1182	1181
7.5°	1154	1161	1179	1193	1196
10°	1143	1156	1183	1204	1208
12.5°	1130	1148	1185	1214	1224
15°	1114	1138	1184	1238	1260
17.5°	1096	1126	1188	1276	1316
20°	1074	1113	1201	1330	1381
22.5°	1050	1096	1223	1394	1477
25°	1023	1079	1254	1487	1595
27.5°	993	1062	1290	1589	1714
30°	961	1046	1342	1682	1803
32.5°	927	1034	1398	1725	1744
35°	891	1022	1446	1630	1564
37.5°	852	1013	1471	1456	1361
40°	808	1006	1444	1289	1420
42.5°	765	997	1338	1334	1431
45°	721	988	1208	1307	1354
47.5°	674	974	1078	1191	1206
50°	622	943	1029	1001	902
52.5°	562	881	915	721	612
55°	484	779	740	530	530
57.5°	386	632	556	455	469
60°	273	432	378	392	438
62.5°	154	233	260	324	386
65°	54	91	170	234	270
67.5°	14	22	87	130	141
70°	9	9	24	41	31
72.5°	6	6	6	6	6
75°	4	4	4	4	4
77.5°	3	3	3	3	3
80°	2	2	2	2	2
82.5°	1	1	1	1	1
85°	1	1	1	1	1
87.5°	1	1	0	0	0
90°	0	0	0	0	0
92.5°	0	0	0	0	0
95°	0	0	0	0	0
97.5°	0	0	0	0	0
100°	0	0	0	0	0
102.5°	0	0	0	0	0
105°	0	0	0	0	0
107.5°	0	0	0	0	0
110°	0	0	0	0	0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0	0	0	0	0
115°	0	0	0	0	0
117.5°	0	0	0	0	0
120°	0	0	0	0	0
122.5°	0	0	0	0	0
125°	0	0	0	0	0
127.5°	0	0	0	0	0
130°	0	0	0	0	0
132.5°	0	0	0	0	0
135°	0	0	0	0	0
137.5°	0	0	0	0	0
140°	0	0	0	0	0
142.5°	0	0	0	0	0
145°	0	0	0	0	0
147.5°	0	0	0	0	0
150°	0	0	0	0	0
152.5°	0	0	0	0	0
155°	0	0	0	0	0
157.5°	0	0	0	0	0
160°	0	0	0	0	0
162.5°	0	0	0	0	0
165°	0	0	0	0	0
167.5°	0	0	0	0	0
170°	0	0	0	0	0
172.5°	0	0	0	0	0
175°	0	0	0	0	0
177.5°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)